## Study2-A Front-End: Towards a realistic channel

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## Front End Performance

Table 1: Study-2; Palmer;  $B_z$  periodic in drift and buncher:  ${}^{1}$  R=0.32  ${}^{2}$  R=0.43; Maxwellian and Be windows in the buncher

	λ	$\epsilon_T$		$\epsilon_L$		$\epsilon_6$		$N_0$		$N_1$		$N_2$	
ST-2.		7.7	2.7	95.0	25.6	6.0	0.2	0.37	0.22			0.08	0.16
Palmer.	0.	9.5	6.5	72.4	62.5	6.6	2.7	0.51	0.42	0.20	0.24	0.08	0.12
D.&B. <sup>1</sup>	0.5/0.75	9.6	6.7	69.3	65.7	6.5	3.0	0.47	0.39	0.17	0.21		0.11
$D.\&B.^{2}$	0.5/0.75	9.7	6.6	76.3	63.0	7.3	2.7	0.45	0.37	0.17	0.20	0.08	0.11
Maxw.	0.5/0.75	9.8	6.6	68.1	60.2	6.7	2.7	0.44	0.36	0.17	0.20	0.07	0.10
+win.	0.5/0.75	9.9	7.4	93.9	93.8	9.2	5.3	0.27	0.21	0.08	0.08	0.04	0.03

The first value of  $\epsilon_T$  is at 266 m and the second at 315.48 m; likewise with the other variables

 $N_0$  total  $\mu/p$ 

 $N_1$  within  $\epsilon_T=30$  mm-rad and  $\epsilon_L=150$  mm

 $N_2$  within  $\epsilon_T=15$  mm-rad and  $\epsilon_L=150$  mm

